TestAmerica
ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

May 03, 2007

Bill Haldeman
PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

RE: Shell Terminal - 2555 13th SW, Seattle, WA

Enclosed are the results of analyses for samples received by the laboratory on 04/14/07 11:10. The following list is a summary of the Work Orders contained in this report, generated on 05/03/07 15:54.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
BQD0232	Shell Terminal - 2555 13th SW	SAP 357032, RIPR 57904

Sandra Yakamavich

Sandra Yakamavich, Project Manager

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Outfall-1-041307	BQD0232-01	Water	04/13/07 17:30	04/14/07 11:10
Outfall-2-041307	BQD0232-02	Water	04/13/07 19:50	04/14/07 11:10
Field Blank	BQD0232-03	Water	04/13/07 17:30	04/14/07 11:10
Trip Blank	BQD0232-04	Water	04/13/07 17:30	04/14/07 11:10

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Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQD0232-01 (Outfall-1-041307)		**Water**				**Sampled: 04/13/07 17:30**				
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	ND	-----	50.0	ug/l	1x	7D16025	04/16/07 10:45	04/16/07 14:35	
Benzene	"	ND	-----	0.500	"	"	"	"	"	
Toluene	"	ND	-----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	-----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	-----	1.00	"	"	"	"	"	
Surrogate(s): *4-BFB (FID)*			*84.3%*		*58 - 144 %*	"			"	
4-BFB (PID)			*102%*		*68 - 140 %*	"			"	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Sandra Yakamavich, Project Manager

HI-SHELL002450

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Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Total Metals by EPA 200 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQD0232-01 (Outfall-1-041307)		**Water**					**Sampled: 04/13/07 17:30**			
Arsenic	EPA 200.7	ND	-----	0.100	mg/l	1x	7D20047	04/20/07 16:30	04/25/07 10:32	
Cadmium	"	ND	-----	0.00500	"	"	"	"	04/24/07 17:58	
Copper	"	ND	-----	0.0100	"	"	"	"	"	
Lead	"	ND	-----	0.0500	"	"	"	"	"	
Nickel	"	ND	-----	0.0100	"	"	"	"	"	
Silver	"	ND	-----	0.0100	"	"	"	"	"	
Zinc	"	**0.0544**	-----	0.0200	"	"	"	"	"	

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Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Organochlorine Pesticides and PCBs by EPA Method 608

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQD0232-01 (Outfall-1-041307)		**Water**			**Sampled: 04/13/07 17:30**					**H4**
Aldrin	EPA 608	ND	-----	0.0990	ug/l	1x	7D23012	04/23/07 08:52	04/26/07 20:48	
alpha-BHC	"	ND	-----	0.0396	"	"	"	"	"	
beta-BHC	"	ND	-----	0.0792	"	"	"	"	"	
delta-BHC	"	ND	-----	0.0990	"	"	"	"	"	
gamma-BHC (Lindane)	"	ND	-----	0.0396	"	"	"	"	"	
alpha-Chlordane	"	ND	-----	0.0396	"	"	"	"	"	
gamma-Chlordane	"	ND	-----	0.0396	"	"	"	"	"	
4,4´-DDD	"	ND	-----	0.0792	"	"	"	"	"	
4,4´-DDE	"	ND	-----	0.0792	"	"	"	"	"	
4,4´-DDT	"	ND	-----	0.0792	"	"	"	"	"	
Dieldrin	"	ND	-----	0.0792	"	"	"	"	"	
Endosulfan I	"	ND	-----	0.0198	"	"	"	"	"	
Endosulfan II	"	ND	-----	0.0792	"	"	"	"	"	
Endosulfan sulfate	"	ND	-----	0.0990	"	"	"	"	"	
Endrin	"	ND	-----	0.0792	"	"	"	"	"	
Endrin aldehyde	"	ND	-----	0.198	"	"	"	"	"	
Endrin ketone	"	ND	-----	0.198	"	"	"	"	"	
Heptachlor	"	ND	-----	0.0792	"	"	"	"	"	
Heptachlor epoxide	"	ND	-----	0.0396	"	"	"	"	"	
Methoxychlor	"	ND	-----	0.495	"	"	"	"	"	
Toxaphene	"	ND	-----	1.98	"	"	"	"	"	
Aroclor 1016	"	ND	-----	0.495	"	"	"	"	"	
Aroclor 1221	"	ND	-----	0.495	"	"	"	"	"	
Aroclor 1232	"	ND	-----	0.495	"	"	"	"	"	
Aroclor 1242	"	ND	-----	0.495	"	"	"	"	"	
Aroclor 1248	"	ND	-----	0.495	"	"	"	"	"	
Aroclor 1254	"	ND	-----	0.495	"	"	"	"	"	
Aroclor 1260	"	ND	-----	0.495	"	"	"	"	"	
Surrogate(s): *TCX*			*75.8%*		*25 - 129 %*	"			"	
Decachlorobiphenyl			*37.0%*		*22 - 125 %*	"			"	

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Purgeables by EPA Method 624

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQD0232-01 (Outfall-1-041307)		**Water**			**Sampled: 04/13/07 17:30**					
Acetone	EPA 624	ND	-----	10.0	ug/l	1x	7D24029	04/24/07 12:19	04/24/07 14:33	
Acetonitrile	"	ND	-----	5.00	"	"	"	"	"	
Acrolein	"	ND	-----	5.00	"	"	"	"	"	
Acrylonitrile	"	ND	-----	5.00	"	"	"	"	"	
Benzene	"	ND	-----	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	-----	1.00	"	"	"	"	"	
Bromoform	"	ND	-----	1.00	"	"	"	"	"	
Bromomethane	"	ND	-----	2.00	"	"	"	"	"	
2-Butanone	"	ND	-----	10.0	"	"	"	"	"	
Carbon disulfide	"	ND	-----	1.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	-----	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
Chloroethane	"	ND	-----	1.00	"	"	"	"	"	
2-Chloroethylvinyl ether	"	ND	-----	5.00	"	"	"	"	"	
Chloroform	"	ND	-----	1.00	"	"	"	"	"	
Chloromethane	"	ND	-----	5.00	"	"	"	"	"	
Dibromochloromethane	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	-----	5.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	-----	1.00	"	"	"	"	"	
Dibromomethane	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	-----	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	-----	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	-----	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	-----	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	-----	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	-----	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	-----	1.00	"	"	"	"	"	
2-Hexanone	"	ND	-----	10.0	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	-----	10.0	"	"	"	"	"	
Methylene chloride	"	ND	-----	5.00	"	"	"	"	"	
Styrene	"	ND	-----	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	1.00	"	"	"	"	"	
Toluene	"	ND	-----	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	1.00	"	"	"	"	"	

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Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Purgeables by EPA Method 624

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQD0232-01 (Outfall-1-041307)		**Water**			**Sampled: 04/13/07 17:30**					
Trichloroethene	EPA 624	ND	-----	1.00	ug/l	1x	7D24029	04/24/07 12:19	04/24/07 14:33	
Trichlorofluoromethane	"	ND	-----	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	-----	1.00	"	"	"	"	"	
Vinyl acetate	"	ND	-----	5.00	"	"	"	"	"	
Vinyl chloride	"	ND	-----	1.00	"	"	"	"	"	
o-Xylene	"	ND	-----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	-----	2.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			*98.0%*		*70 - 130 %*	"			"	
Toluene-d8			*101%*		*70 - 130 %*	"			"	
4-BFB			*100%*		*70 - 130 %*	"			"	
BQD0232-04 (Trip Blank)		**Water**			**Sampled: 04/13/07 17:30**					
Acetone	EPA 624	ND	-----	10.0	ug/l	1x	7D24029	04/24/07 12:19	04/24/07 14:50	
Acetonitrile	"	ND	-----	5.00	"	"	"	"	"	
Acrolein	"	ND	-----	5.00	"	"	"	"	"	
Acrylonitrile	"	ND	-----	5.00	"	"	"	"	"	
Benzene	"	ND	-----	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	-----	1.00	"	"	"	"	"	
Bromoform	"	ND	-----	1.00	"	"	"	"	"	
Bromomethane	"	ND	-----	2.00	"	"	"	"	"	
2-Butanone	"	ND	-----	10.0	"	"	"	"	"	
Carbon disulfide	"	ND	-----	1.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	-----	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
Chloroethane	"	ND	-----	1.00	"	"	"	"	"	
2-Chloroethylvinyl ether	"	ND	-----	5.00	"	"	"	"	"	
Chloroform	"	ND	-----	1.00	"	"	"	"	"	
Chloromethane	"	ND	-----	5.00	"	"	"	"	"	
Dibromochloromethane	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	-----	5.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	-----	1.00	"	"	"	"	"	
Dibromomethane	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	-----	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	-----	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	-----	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	-----	1.00	"	"	"	"	"	

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HI-SHELL002454

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9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Purgeables by EPA Method 624

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQD0232-04 (Trip Blank)		**Water**				**Sampled: 04/13/07 17:30**				
cis-1,3-Dichloropropene	EPA 624	ND	-----	1.00	ug/l	1x	7D24029	04/24/07 12:19	04/24/07 14:50	
trans-1,3-Dichloropropene	"	ND	-----	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	-----	1.00	"	"	"	"	"	
2-Hexanone	"	ND	-----	10.0	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	-----	10.0	"	"	"	"	"	
Methylene chloride	"	ND	-----	5.00	"	"	"	"	"	
Styrene	"	ND	-----	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	1.00	"	"	"	"	"	
Toluene	"	ND	-----	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	1.00	"	"	"	"	"	
Trichloroethene	"	ND	-----	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	-----	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	-----	1.00	"	"	"	"	"	
Vinyl acetate	"	ND	-----	5.00	"	"	"	"	"	
Vinyl chloride	"	ND	-----	1.00	"	"	"	"	"	
o-Xylene	"	ND	-----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	-----	2.00	"	"	"	"	"	
Surrogate(s): *1,2-DCA-d4*			*99.0%*		*70 - 130 %*	"			"	
Toluene-d8			*100%*		*70 - 130 %*	"			"	
4-BFB			*102%*		*70 - 130 %*	"			"	

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Acid and Base/Neutral Extractables by EPA Method 625

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQD0232-01 (Outfall-1-041307)		**Water**			**Sampled: 04/13/07 17:30**					
Acenaphthene	EPA 625	ND	-----	9.80	ug/l	1x	7D20023	04/20/07 11:38	04/24/07 22:06	
Acenaphthylene	"	ND	-----	9.80	"	"	"	"	"	
Aniline	"	ND	-----	9.80	"	"	"	"	"	
Anthracene	"	ND	-----	9.80	"	"	"	"	"	
1,2-Diphenylhydrazine (as Azobenzene)	"	ND	-----	19.6	"	"	"	"	"	
Benzidine	"	ND	-----	19.6	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	9.80	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	9.80	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	-----	9.80	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	9.80	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	9.80	"	"	"	"	"	
Benzoic Acid	"	ND	-----	19.6	"	"	"	"	"	
Benzyl alcohol	"	ND	-----	9.80	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	-----	9.80	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	-----	9.80	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	-----	9.80	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	-----	49.0	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	-----	9.80	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	-----	9.80	"	"	"	"	"	
Carbazole	"	ND	-----	9.80	"	"	"	"	"	
4-Chloroaniline	"	ND	-----	9.80	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	-----	9.80	"	"	"	"	"	
1-Chloronaphthalene	"	ND	-----	19.6	"	"	"	"	"	
2-Chloronaphthalene	"	ND	-----	9.80	"	"	"	"	"	
2-Chlorophenol	"	ND	-----	9.80	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	-----	9.80	"	"	"	"	"	
3 & 4-Methylphenol (m,p-Cresols)	"	ND	-----	9.80	"	"	"	"	"	
2-Methylphenol (o-Cresol)	"	ND	-----	9.80	"	"	"	"	"	
Chrysene	"	ND	-----	9.80	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	-----	9.80	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	-----	9.80	"	"	"	"	"	
Dibenzofuran	"	ND	-----	9.80	"	"	"	"	"	
3,3´-Dichlorobenzidine	"	ND	-----	19.6	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	-----	9.80	"	"	"	"	"	
Diethyl phthalate	"	ND	-----	9.80	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	-----	9.80	"	"	"	"	"	
Dimethyl phthalate	"	ND	-----	9.80	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	-----	9.80	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	-----	19.6	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	-----	9.80	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	-----	9.80	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	-----	9.80	"	"	"	"	"	

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Acid and Base/Neutral Extractables by EPA Method 625

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQD0232-01 (Outfall-1-041307)		**Water**			**Sampled: 04/13/07 17:30**					
Fluoranthene	EPA 625	ND	-----	9.80	ug/l	1x	7D20023	04/20/07 11:38	04/24/07 22:06	
Fluorene	"	ND	-----	9.80	"	"	"	"	"	
Hexachlorobenzene	"	ND	-----	9.80	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	9.80	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	-----	9.80	"	"	"	"	"	
Hexachloroethane	"	ND	-----	9.80	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	-----	9.80	"	"	"	"	"	
Isophorone	"	ND	-----	9.80	"	"	"	"	"	
1-Methylnaphthalene	"	ND	-----	19.6	"	"	"	"	"	
2-Methylnaphthalene	"	ND	-----	9.80	"	"	"	"	"	
Naphthalene	"	ND	-----	9.80	"	"	"	"	"	
2-Nitroaniline	"	ND	-----	19.6	"	"	"	"	"	
3-Nitroaniline	"	ND	-----	9.80	"	"	"	"	"	
4-Nitroaniline	"	ND	-----	9.80	"	"	"	"	"	
Nitrobenzene	"	ND	-----	9.80	"	"	"	"	"	
2-Nitrophenol	"	ND	-----	9.80	"	"	"	"	"	
4-Nitrophenol	"	ND	-----	9.80	"	"	"	"	"	
N-Nitrosodimethylamine	"	ND	-----	19.6	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	-----	9.80	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	-----	9.80	"	"	"	"	"	
Pentachlorophenol	"	ND	-----	9.80	"	"	"	"	"	
Phenanthrene	"	ND	-----	9.80	"	"	"	"	"	
Phenol	"	ND	-----	9.80	"	"	"	"	"	
Pyrene	"	ND	-----	9.80	"	"	"	"	"	
Pyridine	"	ND	-----	19.6	"	"	"	"	"	
alpha-Terpineol	"	ND	-----	9.80	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	9.80	"	"	"	"	"	
2,4,5-Trichlorophenol	"	ND	-----	9.80	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	-----	9.80	"	"	"	"	"	
Surrogate(s): *2-FBP*			*82.7%*		*49 - 122 %*	"			"	
2-FP			*77.9%*		*20 - 111 %*	"			"	
Nitrobenzene-d5			*92.4%*		*50 - 120 %*	"			"	
Phenol-d6			*83.3%*		*12 - 120 %*	"			"	
p-Terphenyl-d14			*68.0%*		*10 - 138 %*	"			"	
2,4,6-TBP			*79.2%*		*22 - 131 %*	"			"	

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Conventional Chemistry Parameters by APHA/EPA Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQD0232-01 (Outfall-1-041307)		**Water**					**Sampled: 04/13/07 17:30**			
Cyanide (total)	EPA 335.2 Mod	ND	-----	0.0100	mg/l	1x	7D26021	04/24/07 18:00	04/26/07 13:03	
Oil & Grease (HEM)	EPA 1664A	ND	-----	5.10	"	"	7D18040	04/18/07 13:44	04/23/07 10:57	
Total Suspended Solids	EPA 160.2	ND	-----	4.0	"	"	7D16057	04/16/07 15:23	04/17/07 15:23	
Total Petroleum Hydrocarbons (SGT-HEM)	EPA 1664A	ND	-----	5.10	"	"	7D18040	04/18/07 13:44	04/23/07 10:57	
BQD0232-02 (Outfall-2-041307)		**Water**					**Sampled: 04/13/07 19:50**			
Oil & Grease (HEM)	EPA 1664A	ND	-----	5.10	mg/l	1x	7D18040	04/18/07 13:44	04/23/07 10:57	
Total Petroleum Hydrocarbons (SGT-HEM)	"	ND	-----	5.10	"	"	"	"	"	

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Mercury by EPA Method 1631E

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BQD0232-01RE1 (Outfall-1-041307)		**Water**					**Sampled: 04/13/07 17:30**			
Mercury	EPA 1631E	ND	-----	0.00500	ug/l	1x	7041179	04/26/07 16:27	04/27/07 10:46	
BQD0232-03RE1 (Field Blank)		**Water**					**Sampled: 04/13/07 17:30**			
Mercury	EPA 1631E	ND	-----	0.00500	ug/l	1x	7041179	04/26/07 16:27	04/27/07 10:51	

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7D16025 **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7D16025-BLK1)								**Extracted: 04/16/07 10:45**						
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	04/16/07 13:00	
Benzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 84.0%*			*Limits: 58-144%*	"							*04/16/07 13:00*	
4-BFB (PID)		*102%*			*68-140%*	"							"	
LCS (7D16025-BS1)								**Extracted: 04/16/07 10:45**						
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	910	---	50.0	ug/l	1x	--	1000	91.0%	(80-120)	--	--	04/16/07 13:32	
Surrogate(s): 4-BFB (FID)		*Recovery: 93.3%*			*Limits: 58-144%*	"							*04/16/07 13:32*	
LCS (7D16025-BS2)								**Extracted: 04/16/07 10:45**						
Benzene	NWTPH-Gx/ 8021B	27.9	---	0.500	ug/l	1x	--	30.0	93.0%	(80-120)	--	--	04/16/07 14:04	
Toluene	"	27.7	---	0.500	"	"	--	"	92.3%	"	--	--	"	
Ethylbenzene	"	28.0	---	0.500	"	"	--	"	93.3%	"	--	--	"	
Xylenes (total)	"	84.1	---	1.00	"	"	--	90.0	93.4%	"	--	--	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 102%*			*Limits: 68-140%*	"							*04/16/07 14:04*	
Duplicate (7D16025-DUP1)					**QC Source: BQD0232-01**			**Extracted: 04/16/07 10:45**						
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	ND	---	50.0	ug/l	1x	ND	--	--	--	NR	(25)	04/16/07 15:07	
Benzene	"	ND	---	0.500	"	"	ND	--	--	--	NR	"	"	
Toluene	"	ND	---	0.500	"	"	ND	--	--	--	NR	"	"	
Ethylbenzene	"	ND	---	0.500	"	"	ND	--	--	--	NR	"	"	
Xylenes (total)	"	ND	---	1.00	"	"	ND	--	--	--	NR	"	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 84.2%*			*Limits: 58-144%*	"							*04/16/07 15:07*	
4-BFB (PID)		*103%*			*68-140%*	"							"	
Duplicate (7D16025-DUP2)					**QC Source: BQD0131-02**			**Extracted: 04/16/07 10:45**						
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	180	---	50.0	ug/l	1x	180	--	--	--	0.00%	(25)	04/16/07 16:12	
Benzene	"	1.81	---	0.500	"	"	1.83	--	--	--	1.10%	"	"	
Toluene	"	0.513	---	0.500	"	"	0.518	--	--	--	0.970%	"	"	
Ethylbenzene	"	2.60	---	0.500	"	"	2.61	--	--	--	0.384%	"	"	
Xylenes (total)	"	ND	---	1.00	"	"	ND	--	--	--	5.48%	"	"	**R4**
Surrogate(s): 4-BFB (FID)		*Recovery: 90.3%*			*Limits: 58-144%*	"							*04/16/07 16:12*	
4-BFB (PID)		*103%*			*68-140%*	"							"	

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7D16025 **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (7D16025-MS1)					**QC Source: BQD0232-01**				**Extracted: 04/16/07 10:45**					
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	1030	---	50.0	ug/l	1x	ND	1000	103%	(75-131)	--	--	04/16/07 17:15	
Surrogate(s): 4-BFB (FID)		*Recovery: 94.5%*			*Limits: 58-144%*	*"*							*04/16/07 17:15*	
Matrix Spike (7D16025-MS2)					**QC Source: BQD0131-02**				**Extracted: 04/16/07 10:45**					
Benzene	NWTPH-Gx/ 8021B	31.2	---	0.500	ug/l	1x	1.83	30.0	97.9%	(46-130)	--	--	04/16/07 17:47	
Toluene	"	29.5	---	0.500	"	"	0.518	"	96.6%	(60-124)	--	--	"	
Ethylbenzene	"	33.0	---	0.500	"	"	2.61	"	101%	(56-141)	--	--	"	
Xylenes (total)	"	91.0	---	1.00	"	"	0.713	90.0	100%	(66-132)	--	--	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 104%*			*Limits: 68-140%*	*"*							*04/16/07 17:47*	

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7D20047 **Water Preparation Method: EPA 200 Series**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7D20047-BLK1)								**Extracted: 04/20/07 16:30**						
Cadmium	EPA 200.7	ND	---	0.00500	mg/l	1x	--	--	--	--	--	--	04/24/07 14:08	
Silver	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Copper	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Arsenic	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Nickel	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
LCS (7D20047-BS1)								**Extracted: 04/20/07 16:30**						
Lead	EPA 200.7	5.38	---	0.0500	mg/l	1x	--	5.00	108%	(85-115)	--	--	04/24/07 14:13	
Copper	"	5.50	---	0.0100	"	"	--	"	110%	"	--	--	"	
Nickel	"	5.46	---	0.0100	"	"	--	"	109%	"	--	--	"	
Arsenic	"	5.71	---	0.100	"	"	--	"	114%	"	--	--	"	
Silver	"	1.07	---	0.0100	"	"	--	1.00	107%	"	--	--	"	
Zinc	"	5.48	---	0.0200	"	"	--	5.00	110%	"	--	--	"	
Cadmium	"	5.52	---	0.00500	"	"	--	"	110%	"	--	--	"	
Duplicate (7D20047-DUP1)							**QC Source: BQD0315-01**						**Extracted: 04/20/07 16:30**	
Copper	EPA 200.7	ND	---	0.0100	mg/l	1x	ND	--	--	--	31.7%	(20)	04/24/07 14:29	**R4**
Cadmium	"	ND	---	0.00500	"	"	ND	--	--	--	NR	"	"	
Arsenic	"	ND	---	0.100	"	"	ND	--	--	--	NR	"	"	
Lead	"	ND	---	0.0500	"	"	ND	--	--	--	NR	"	"	**R4**
Zinc	"	0.0660	---	0.0200	"	"	0.0646	--	--	--	2.14%	"	"	**R4**
Nickel	"	ND	---	0.0100	"	"	ND	--	--	--	60.0%	"	"	**R4**
Silver	"	ND	---	0.0100	"	"	ND	--	--	--	26.9%	(50)	"	
Matrix Spike (7D20047-MS1)							**QC Source: BQD0315-01**						**Extracted: 04/20/07 16:30**	
Cadmium	EPA 200.7	5.50	---	0.00500	mg/l	1x	ND	5.00	110%	(80-120)	--	--	04/24/07 14:19	
Arsenic	"	5.68	---	0.100	"	"	ND	"	114%	"	--	--	"	
Copper	"	5.44	---	0.0100	"	"	0.00530	"	109%	"	--	--	"	
Silver	"	1.07	---	0.0100	"	"	0.00290	1.00	107%	(70-130)	--	--	"	
Zinc	"	5.49	---	0.0200	"	"	0.0646	5.00	109%	(80-120)	--	--	"	
Lead	"	5.37	---	0.0500	"	"	ND	"	107%	"	--	--	"	
Nickel	"	5.44	---	0.0100	"	"	0.00140	"	109%	"	--	--	"	

TestAmerica - Seattle, WA

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7D20047 **Water Preparation Method: EPA 200 Series**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (7D20047-MS2)				**QC Source: BQD0273-01**				**Extracted: 04/20/07 16:30**						
Arsenic	EPA 200.7	5.65	---	0.100	mg/l	1x	ND	5.00	113%	(80-120)	--	--	04/24/07 14:24	
Cadmium	"	5.48	---	0.00500	"	"	ND	"	110%	"	--	--	"	
Lead	"	5.38	---	0.0500	"	"	ND	"	108%	"	--	--	"	
Zinc	"	5.44	---	0.0200	"	"	0.0292	"	108%	"	--	--	"	
Copper	"	5.42	---	0.0100	"	"	0.0103	"	108%	"	--	--	"	
Silver	"	1.07	---	0.0100	"	"	0.00350	1.00	107%	(70-130)	--	--	"	
Nickel	"	5.43	---	0.0100	"	"	ND	5.00	109%	(80-120)	--	--	"	

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Organochlorine Pesticides and PCBs by EPA Method 608 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7D23012 **Water Preparation Method: EPA 3520C**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7D23012-BLK1)							**Extracted: 04/23/07 08:52**							
Aldrin	EPA 608	ND	---	0.100	ug/l	1x	--	--	--	--	--	--	04/26/07 19:47	
alpha-BHC	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
beta-BHC	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
delta-BHC	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
gamma-BHC (Lindane)	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
alpha-Chlordane	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
gamma-Chlordane	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
4,4´-DDD	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
4,4´-DDE	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
4,4´-DDT	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
Dieldrin	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
Endosulfan I	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
Endosulfan II	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
Endosulfan sulfate	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endrin	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
Endrin aldehyde	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	**R10**
Endrin ketone	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Heptachlor	"	ND	---	0.0800	"	"	--	--	--	--	--	--	"	
Heptachlor epoxide	"	ND	---	0.0400	"	"	--	--	--	--	--	--	"	
Methoxychlor	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toxaphene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Aroclor 1016	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1221	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Surrogate(s): TCX		*Recovery: 97.5%*			*Limits: 25-129%*	"							*04/26/07 19:47*	
Decachlorobiphenyl		*94.0%*			*22-125%*	"							"	

TestAmerica - Seattle, WA

Sandra Yakamavich

Sandra Yakamavich, Project Manager

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Organochlorine Pesticides and PCBs by EPA Method 608 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7D23012 **Water Preparation Method: EPA 3520C**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7D23012-BS1)								**Extracted: 04/23/07 08:52**						
Aldrin	EPA 608	0.105	---	0.100	ug/l	1x	--	0.125	84.0%	(42-122)	--	--	04/26/07 20:07	
alpha-BHC	"	0.122	---	0.0400	"	"	--	"	97.6%	(37-134)	--	--	"	
beta-BHC	"	0.107	---	0.0800	"	"	--	"	85.6%	(17-147)	--	--	"	
delta-BHC	"	0.0938	---	0.100	"	"	--	"	75.0%	(19-140)	--	--	"	
gamma-BHC (Lindane)	"	0.103	---	0.0400	"	"	--	"	82.4%	(32-127)	--	--	"	
alpha-Chlordane	"	0.116	---	0.0400	"	"	--	"	92.8%	(45-119)	--	--	"	
gamma-Chlordane	"	0.102	---	0.0400	"	"	--	"	81.6%	"	--	--	"	
4,4´-DDD	"	0.236	---	0.0800	"	"	--	0.250	94.4%	(31-141)	--	--	"	
4,4´-DDE	"	0.238	---	0.0800	"	"	--	"	95.2%	(30-145)	--	--	"	
4,4´-DDT	"	0.236	---	0.0800	"	"	--	"	94.4%	(25-160)	--	--	"	
Dieldrin	"	0.233	---	0.0800	"	"	--	"	93.2%	(36-146)	--	--	"	
Endosulfan I	"	0.118	---	0.0200	"	"	--	0.125	94.4%	(45-153)	--	--	"	
Endosulfan II	"	0.239	---	0.0800	"	"	--	0.250	95.6%	(10-202)	--	--	"	
Endosulfan sulfate	"	0.237	---	0.100	"	"	--	"	94.8%	(26-144)	--	--	"	
Endrin	"	0.227	---	0.0800	"	"	--	"	90.8%	(30-147)	--	--	"	
Endrin aldehyde	"	0.258	---	0.200	"	"	--	"	103%	"	--	--	"	
Endrin ketone	"	0.245	---	0.200	"	"	--	"	98.0%	"	--	--	"	
Heptachlor	"	0.0989	---	0.0800	"	"	--	0.125	79.1%	(34-111)	--	--	"	
Heptachlor epoxide	"	0.106	---	0.0400	"	"	--	"	84.8%	(37-142)	--	--	"	
Methoxychlor	"	1.05	---	0.500	"	"	--	1.25	84.0%	(25-160)	--	--	"	
Surrogate(s): TCX		*Recovery: 92.5%*			*Limits: 25-129%*	"							*04/26/07 20:07*	
Decachlorobiphenyl		*90.5%*			*22-125%*	"							"	
LCS Dup (7D23012-BSD1)								**Extracted: 04/23/07 08:52**						
Aldrin	EPA 608	0.108	---	0.100	ug/l	1x	--	0.125	86.4%	(42-122)	2.82%	(35)	04/26/07 20:28	
alpha-BHC	"	0.132	---	0.0400	"	"	--	"	106%	(37-134)	7.87%	"	"	
beta-BHC	"	0.108	---	0.0800	"	"	--	"	86.4%	(17-147)	0.930%	"	"	
delta-BHC	"	0.0943	---	0.100	"	"	--	"	75.4%	(19-140)	0.532%	"	"	
gamma-BHC (Lindane)	"	0.108	---	0.0400	"	"	--	"	86.4%	(32-127)	4.74%	"	"	
alpha-Chlordane	"	0.117	---	0.0400	"	"	--	"	93.6%	(45-119)	0.858%	"	"	
gamma-Chlordane	"	0.104	---	0.0400	"	"	--	"	83.2%	"	1.94%	"	"	
4,4´-DDD	"	0.239	---	0.0800	"	"	--	0.250	95.6%	(31-141)	1.26%	"	"	
4,4´-DDE	"	0.235	---	0.0800	"	"	--	"	94.0%	(30-145)	1.27%	"	"	
4,4´-DDT	"	0.221	---	0.0800	"	"	--	"	88.4%	(25-160)	6.56%	"	"	
Dieldrin	"	0.234	---	0.0800	"	"	--	"	93.6%	(36-146)	0.428%	"	"	
Endosulfan I	"	0.123	---	0.0200	"	"	--	0.125	98.4%	(45-153)	4.15%	"	"	
Endosulfan II	"	0.235	---	0.0800	"	"	--	0.250	94.0%	(10-202)	1.69%	"	"	
Endosulfan sulfate	"	0.239	---	0.100	"	"	--	"	95.6%	(26-144)	0.840%	"	"	
Endrin	"	0.221	---	0.0800	"	"	--	"	88.4%	(30-147)	2.68%	"	"	

TestAmerica - Seattle, WA

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Organochlorine Pesticides and PCBs by EPA Method 608 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7D23012 **Water Preparation Method: EPA 3520C**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS Dup (7D23012-BSD1)								**Extracted: 04/23/07 08:52**						
Endrin aldehyde	EPA 608	0.259	---	0.200	ug/l	1x	--	0.250	104%	(30-147)	0.387%	(35)	04/26/07 20:28	
Endrin ketone	"	0.246	---	0.200	"	"	--	"	98.4%	"	0.407%	"	"	
Heptachlor	"	0.107	---	0.0800	"	"	--	0.125	85.6%	(34-111)	7.87%	"	"	
Heptachlor epoxide	"	0.108	---	0.0400	"	"	--	"	86.4%	(37-142)	1.87%	"	"	
Methoxychlor	"	0.982	---	0.500	"	"	--	1.25	78.6%	(25-160)	6.69%	"	"	
Surrogate(s): TCX		*Recovery: 102%*			*Limits: 25-129%*	"							*04/26/07 20:28*	
Decachlorobiphenyl		*90.5%*			*22-125%*	"							"	

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Purgeables by EPA Method 624 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7D24029 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7D24029-BLK1)									**Extracted: 04/24/07 10:19**					
Acetone	EPA 624	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	04/24/07 13:31	
Acetonitrile	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Acrolein	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Acrylonitrile	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
2-Chloroethylvinyl ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Purgeables by EPA Method 624 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7D24029 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7D24029-BLK1)									**Extracted: 04/24/07 10:19**					
Tetrachloroethene	EPA 624	ND	---	1.00	ug/l	1x	--	--	--	--	--	--	04/24/07 13:31	
Toluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Vinyl acetate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 98.5%*			*Limits: 70-130%*	"							*04/24/07 13:31*	
Toluene-d8		*102%*			*70-130%*	"							*"*	
4-BFB		*100%*			*70-130%*	"							*"*	
LCS (7D24029-BS1)									**Extracted: 04/24/07 10:19**					
Acetone	EPA 624	175	---	10.0	ug/l	1x	--	200	87.5%	(70-130)	--	--	04/24/07 11:43	
Benzene	"	18.4	---	1.00	"	"	--	20.0	92.0%	(75-125)	--	--	"	
Bromodichloromethane	"	18.6	---	1.00	"	"	--	"	93.0%	"	--	--	"	
Bromoform	"	18.6	---	1.00	"	"	--	"	93.0%	"	--	--	"	
Bromomethane	"	18.7	---	2.00	"	"	--	"	93.5%	"	--	--	"	
2-Butanone	"	186	---	10.0	"	"	--	200	93.0%	(70-130)	--	--	"	
Carbon disulfide	"	19.3	---	1.00	"	"	--	20.0	96.5%	"	--	--	"	
Carbon tetrachloride	"	20.0	---	1.00	"	"	--	"	100%	(75-125)	--	--	"	
Chlorobenzene	"	17.6	---	1.00	"	"	--	"	88.0%	"	--	--	"	
Chloroethane	"	19.7	---	1.00	"	"	--	"	98.5%	"	--	--	"	
Chloroform	"	18.0	---	1.00	"	"	--	"	90.0%	"	--	--	"	
Chloromethane	"	17.6	---	5.00	"	"	--	"	88.0%	"	--	--	"	
Dibromochloromethane	"	18.2	---	1.00	"	"	--	"	91.0%	"	--	--	"	
1,2-Dibromo-3-chloropropane	"	18.3	---	5.00	"	"	--	"	91.5%	(70-130)	--	--	"	
1,2-Dibromoethane	"	18.6	---	1.00	"	"	--	"	93.0%	"	--	--	"	
Dibromomethane	"	19.3	---	1.00	"	"	--	"	96.5%	"	--	--	"	
1,2-Dichlorobenzene	"	18.3	---	1.00	"	"	--	"	91.5%	(75-125)	--	--	"	
1,3-Dichlorobenzene	"	18.5	---	1.00	"	"	--	"	92.5%	"	--	--	"	
1,4-Dichlorobenzene	"	18.7	---	1.00	"	"	--	"	93.5%	"	--	--	"	
Dichlorodifluoromethane	"	20.2	---	1.00	"	"	--	"	101%	(70-130)	--	--	"	
1,1-Dichloroethane	"	18.6	---	1.00	"	"	--	"	93.0%	(75-125)	--	--	"	
1,2-Dichloroethane	"	19.8	---	1.00	"	"	--	"	99.0%	"	--	--	"	
1,1-Dichloroethene	"	19.2	---	1.00	"	"	--	"	96.0%	"	--	--	"	

TestAmerica - Seattle, WA

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Purgeables by EPA Method 624 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7D24029 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7D24029-BS1)							**Extracted: 04/24/07 10:19**							
cis-1,2-Dichloroethene	EPA 624	18.8	---	1.00	ug/l	1x	--	20.0	94.0%	(70-130)	--	--	04/24/07 11:43	
trans-1,2-Dichloroethene	"	19.3	---	1.00	"	"	--	"	96.5%	(75-125)	--	--	"	
1,2-Dichloropropane	"	19.3	---	1.00	"	"	--	"	96.5%	"	--	--	"	
cis-1,3-Dichloropropene	"	19.8	---	1.00	"	"	--	"	99.0%	"	--	--	"	
trans-1,3-Dichloropropene	"	19.5	---	1.00	"	"	--	"	97.5%	"	--	--	"	
Ethylbenzene	"	17.5	---	1.00	"	"	--	"	87.5%	"	--	--	"	
2-Hexanone	"	186	---	10.0	"	"	--	200	93.0%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	186	---	10.0	"	"	--	"	93.0%	"	--	--	"	
Methylene chloride	"	18.2	---	5.00	"	"	--	20.0	91.0%	(75-125)	--	--	"	
Styrene	"	17.7	---	1.00	"	"	--	"	88.5%	(70-130)	--	--	"	
1,1,1,2-Tetrachloroethane	"	17.9	---	1.00	"	"	--	"	89.5%	"	--	--	"	
1,1,2,2-Tetrachloroethane	"	18.3	---	1.00	"	"	--	"	91.5%	(75-125)	--	--	"	
Tetrachloroethene	"	18.1	---	1.00	"	"	--	"	90.5%	(75-130)	--	--	"	
Toluene	"	17.8	---	1.00	"	"	--	"	89.0%	(75-120)	--	--	"	
1,1,1-Trichloroethane	"	19.0	---	1.00	"	"	--	"	95.0%	(75-130)	--	--	"	
1,1,2-Trichloroethane	"	17.8	---	1.00	"	"	--	"	89.0%	"	--	--	"	
Trichloroethene	"	18.8	---	1.00	"	"	--	"	94.0%	(75-120)	--	--	"	
Trichlorofluoromethane	"	19.3	---	1.00	"	"	--	"	96.5%	(75-130)	--	--	"	
1,2,3-Trichloropropane	"	17.9	---	1.00	"	"	--	"	89.5%	(70-130)	--	--	"	
Vinyl chloride	"	19.6	---	1.00	"	"	--	"	98.0%	(75-125)	--	--	"	
o-Xylene	"	17.8	---	1.00	"	"	--	"	89.0%	(70-130)	--	--	"	
m,p-Xylene	"	36.1	---	2.00	"	"	--	40.0	90.2%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 100%*			*Limits: 70-130%*	"							*04/24/07 11:43*	
Toluene-d8		*96.5%*			*70-130%*	"							"	
4-BFB		*98.0%*			*70-130%*	"							"	
LCS Dup (7D24029-BSD1)							**Extracted: 04/24/07 10:19**							
Acetone	EPA 624	177	---	10.0	ug/l	1x	--	200	88.5%	(70-130)	1.14%	(20)	04/24/07 12:17	
Benzene	"	18.8	---	1.00	"	"	--	20.0	94.0%	(75-125)	2.15%	"	"	
Bromodichloromethane	"	19.1	---	1.00	"	"	--	"	95.5%	"	2.65%	"	"	
Bromoform	"	18.8	---	1.00	"	"	--	"	94.0%	"	1.07%	"	"	
Bromomethane	"	20.2	---	2.00	"	"	--	"	101%	"	7.71%	"	"	
2-Butanone	"	188	---	10.0	"	"	--	200	94.0%	(70-130)	1.07%	"	"	
Carbon disulfide	"	19.3	---	1.00	"	"	--	20.0	96.5%	"	0.00%	"	"	
Carbon tetrachloride	"	19.5	---	1.00	"	"	--	"	97.5%	(75-125)	2.53%	"	"	
Chlorobenzene	"	18.5	---	1.00	"	"	--	"	92.5%	"	4.99%	"	"	
Chloroethane	"	19.9	---	1.00	"	"	--	"	99.5%	"	1.01%	"	"	
Chloroform	"	18.9	---	1.00	"	"	--	"	94.5%	"	4.88%	"	"	
Chloromethane	"	18.7	---	5.00	"	"	--	"	93.5%	"	6.06%	"	"	

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Sandra Yakamavich

Sandra Yakamavich, Project Manager

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Purgeables by EPA Method 624 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7D24029 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS Dup (7D24029-BSD1)								**Extracted: 04/24/07 10:19**						
Dibromochloromethane	EPA 624	18.7	---	1.00	ug/l	1x	--	20.0	93.5%	(75-125)	2.71%	(20)	04/24/07 12:17	
1,2-Dibromo-3-chloropropane	"	18.1	---	5.00	"	"	--	"	90.5%	(70-130)	1.10%	"	"	
1,2-Dibromoethane	"	19.1	---	1.00	"	"	--	"	95.5%	"	2.65%	"	"	
Dibromomethane	"	19.5	---	1.00	"	"	--	"	97.5%	"	1.03%	"	"	
1,2-Dichlorobenzene	"	19.1	---	1.00	"	"	--	"	95.5%	(75-125)	4.28%	"	"	
1,3-Dichlorobenzene	"	19.2	---	1.00	"	"	--	"	96.0%	"	3.71%	"	"	
1,4-Dichlorobenzene	"	19.4	---	1.00	"	"	--	"	97.0%	"	3.67%	"	"	
Dichlorodifluoromethane	"	18.0	---	1.00	"	"	--	"	90.0%	(70-130)	11.5%	"	"	
1,1-Dichloroethane	"	19.4	---	1.00	"	"	--	"	97.0%	(75-125)	4.21%	"	"	
1,2-Dichloroethane	"	19.8	---	1.00	"	"	--	"	99.0%	"	0.00%	"	"	
1,1-Dichloroethene	"	19.0	---	1.00	"	"	--	"	95.0%	"	1.05%	"	"	
cis-1,2-Dichloroethene	"	19.7	---	1.00	"	"	--	"	98.5%	(70-130)	4.68%	"	"	
trans-1,2-Dichloroethene	"	19.9	---	1.00	"	"	--	"	99.5%	(75-125)	3.06%	"	"	
1,2-Dichloropropane	"	19.9	---	1.00	"	"	--	"	99.5%	"	3.06%	"	"	
cis-1,3-Dichloropropene	"	20.4	---	1.00	"	"	--	"	102%	"	2.99%	"	"	
trans-1,3-Dichloropropene	"	20.3	---	1.00	"	"	--	"	102%	"	4.02%	"	"	
Ethylbenzene	"	18.4	---	1.00	"	"	--	"	92.0%	"	5.01%	"	"	
2-Hexanone	"	195	---	10.0	"	"	--	200	97.5%	(70-130)	4.72%	"	"	
4-Methyl-2-pentanone	"	188	---	10.0	"	"	--	"	94.0%	"	1.07%	"	"	
Methylene chloride	"	18.7	---	5.00	"	"	--	20.0	93.5%	(75-125)	2.71%	"	"	
Styrene	"	19.3	---	1.00	"	"	--	"	96.5%	(70-130)	8.65%	"	"	
1,1,1,2-Tetrachloroethane	"	18.7	---	1.00	"	"	--	"	93.5%	"	4.37%	"	"	
1,1,2,2-Tetrachloroethane	"	18.5	---	1.00	"	"	--	"	92.5%	(75-125)	1.09%	"	"	
Tetrachloroethene	"	18.8	---	1.00	"	"	--	"	94.0%	(75-130)	3.79%	"	"	
Toluene	"	18.6	---	1.00	"	"	--	"	93.0%	(75-120)	4.40%	"	"	
1,1,1-Trichloroethane	"	19.1	---	1.00	"	"	--	"	95.5%	(75-130)	0.525%	"	"	
1,1,2-Trichloroethane	"	18.6	---	1.00	"	"	--	"	93.0%	"	4.40%	"	"	
Trichloroethene	"	19.2	---	1.00	"	"	--	"	96.0%	(75-120)	2.11%	"	"	
Trichlorofluoromethane	"	18.2	---	1.00	"	"	--	"	91.0%	(75-130)	5.87%	"	"	
1,2,3-Trichloropropane	"	18.0	---	1.00	"	"	--	"	90.0%	(70-130)	0.557%	"	"	
Vinyl chloride	"	19.4	---	1.00	"	"	--	"	97.0%	(75-125)	1.03%	"	"	
o-Xylene	"	18.9	---	1.00	"	"	--	"	94.5%	(70-130)	5.99%	"	"	
m,p-Xylene	"	37.7	---	2.00	"	"	--	40.0	94.2%	"	4.34%	"	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 98.0%*			*Limits: 70-130%*	"							*04/24/07 12:17*	
Toluene-d8		*100%*			*70-130%*	"							"	
4-BFB		*99.5%*			*70-130%*	"							"	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Sandra Yakamavich, Project Manager

HI-SHELL002470

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PH: (425) 420.9200 FAX: (425) 420.9210

PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Acid and Base/Neutral Extractables by EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7D20023 **Water Preparation Method: EPA 3520C**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7D20023-BLK2)								**Extracted: 04/20/07 11:38**						
Acenaphthene	EPA 625	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	04/24/07 19:25	
Acenaphthylene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Aniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2-Diphenylhydrazine (as Azobenzene)	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
Benzidine	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Benzoic Acid	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
Benzyl alcohol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethoxy)methane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethyl)ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroisopropyl)ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-ethylhexyl)phthalate	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
4-Bromophenyl phenyl ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Butyl benzyl phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Carbazole	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Chloroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Chloro-3-methylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1-Chloronaphthalene	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
2-Chloronaphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Chlorophenyl phenyl ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
3 & 4-Methylphenol (m,p-Cresols)	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Methylphenol (o-Cresol)	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Di-n-butyl phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Dibenz (a,h) anthracene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Dibenzofuran	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
3,3´-Dichlorobenzidine	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
2,4-Dichlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diethyl phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4-Dimethylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Acid and Base/Neutral Extractables by EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7D20023 **Water Preparation Method: EPA 3520C**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7D20023-BLK2)							**Extracted: 04/20/07 11:38**							
Dimethyl phthalate	EPA 625	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	04/24/07 19:25	
4,6-Dinitro-2-methylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4-Dinitrophenol	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
2,4-Dinitrotoluene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,6-Dinitrotoluene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodiphenylamine	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachlorobutadiene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachlorocyclopentadiene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachloroethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Isophorone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1-Methylnaphthalene	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Nitroaniline	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
3-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Nitrobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Nitrophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Nitrophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodimethylamine	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodi-n-propylamine	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Di-n-octyl phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Pentachlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Phenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Pyridine	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
alpha-Terpineol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4,5-Trichlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4,6-Trichlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		*Recovery: 91.6%*			*Limits: 49-122%*	"							*04/24/07 19:25*	
2-FP		*94.8%*			*20-111%*	"							"	
Nitrobenzene-d5		*107%*			*50-120%*	"							"	
Phenol-d6		*97.9%*			*12-120%*	"							"	

TestAmerica - Seattle, WA

Sandra Yakamavich

Sandra Yakamavich, Project Manager

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Acid and Base/Neutral Extractables by EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7D20023 **Water Preparation Method: EPA 3520C**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7D20023-BLK2)													**Extracted: 04/20/07 11:38**	
Surrogate(s): p-Terphenyl-d14		*Recovery: 101%*			*Limits: 10-138%*	*1x*							*04/24/07 19:25*	
2,4,6-TBP		*85.4%*			*22-131%*	*"*							*"*	
LCS (7D20023-BS1)													**Extracted: 04/20/07 11:38**	
Acenaphthene	EPA 625	88.9	---	10.0	ug/l	1x	--	100	88.9%	(47-145)	--	--	04/24/07 19:57	
Acenaphthylene	"	85.3	---	10.0	"	"	--	"	85.3%	(33-145)	--	--	"	
Anthracene	"	88.2	---	10.0	"	"	--	"	88.2%	(27-133)	--	--	"	
1,2-Diphenylhydrazine (as Azobenzene)	"	86.4	---	20.0	"	"	--	"	86.4%	(25-150)	--	--	"	
Benzo (a) anthracene	"	88.5	---	10.0	"	"	--	"	88.5%	(33-143)	--	--	"	
Benzo (a) pyrene	"	88.7	---	10.0	"	"	--	"	88.7%	(25-163)	--	--	"	
Benzo (b) fluoranthene	"	79.0	---	10.0	"	"	--	"	79.0%	(25-159)	--	--	"	
Benzo (k) fluoranthene	"	97.7	---	10.0	"	"	--	"	97.7%	(25-162)	--	--	"	
Benzo (ghi) perylene	"	72.9	---	10.0	"	"	--	"	72.9%	(25-219)	--	--	"	
Bis(2-chloroethoxy)methane	"	85.2	---	10.0	"	"	--	"	85.2%	(33-184)	--	--	"	
Bis(2-chloroethyl)ether	"	81.0	---	10.0	"	"	--	"	81.0%	(25-158)	--	--	"	
Bis(2-chloroisopropyl)ether	"	72.0	---	10.0	"	"	--	"	72.0%	(36-166)	--	--	"	
Bis(2-ethylhexyl)phthalate	"	87.5	---	50.0	"	"	--	"	87.5%	(25-158)	--	--	"	
4-Bromophenyl phenyl ether	"	78.3	---	10.0	"	"	--	"	78.3%	(53-127)	--	--	"	
Butyl benzyl phthalate	"	90.9	---	10.0	"	"	--	"	90.9%	(25-152)	--	--	"	
2-Chloronaphthalene	"	70.0	---	10.0	"	"	--	"	70.0%	(60-118)	--	--	"	
2-Chlorophenol	"	87.3	---	10.0	"	"	--	"	87.3%	(25-134)	--	--	"	
4-Chlorophenyl phenyl ether	"	86.2	---	10.0	"	"	--	"	86.2%	(25-158)	--	--	"	
Chrysene	"	88.4	---	10.0	"	"	--	"	88.4%	(25-168)	--	--	"	
Di-n-butyl phthalate	"	86.1	---	10.0	"	"	--	"	86.1%	(25-118)	--	--	"	
Dibenz (a,h) anthracene	"	81.3	---	10.0	"	"	--	"	81.3%	(25-227)	--	--	"	
1,2-Dichlorobenzene	"	68.6	---	10.0	"	"	--	"	68.6%	(32-129)	--	--	"	
1,3-Dichlorobenzene	"	61.4	---	10.0	"	"	--	"	61.4%	(25-172)	--	--	"	
1,4-Dichlorobenzene	"	62.6	---	10.0	"	"	--	"	62.6%	(20-124)	--	--	"	
3,3´-Dichlorobenzidine	"	80.3	---	20.0	"	"	--	"	80.3%	(25-262)	--	--	"	
2,4-Dichlorophenol	"	83.8	---	10.0	"	"	--	"	83.8%	(39-135)	--	--	"	
Diethyl phthalate	"	85.6	---	10.0	"	"	--	"	85.6%	(25-114)	--	--	"	
2,4-Dimethylphenol	"	80.2	---	10.0	"	"	--	"	80.2%	(32-119)	--	--	"	
Dimethyl phthalate	"	87.5	---	10.0	"	"	--	"	87.5%	(25-112)	--	--	"	
4,6-Dinitro-2-methylphenol	"	113	---	10.0	"	"	--	"	113%	(25-181)	--	--	"	
2,4-Dinitrophenol	"	113	---	20.0	"	"	--	"	113%	(25-191)	--	--	"	
2,4-Dinitrotoluene	"	88.7	---	10.0	"	"	--	"	88.7%	(39-139)	--	--	"	
2,6-Dinitrotoluene	"	88.5	---	10.0	"	"	--	"	88.5%	(50-158)	--	--	"	
Fluoranthene	"	92.3	---	10.0	"	"	--	"	92.3%	(26-137)	--	--	"	
Fluorene	"	85.5	---	10.0	"	"	--	"	85.5%	(59-121)	--	--	"	

TestAmerica - Seattle, WA

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Acid and Base/Neutral Extractables by EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7D20023 **Water Preparation Method: EPA 3520C**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7D20023-BS1)									Extracted: 04/20/07 11:38					
Hexachlorobenzene	EPA 625	88.7	---	10.0	ug/l	1x	--	100	88.7%	(25-152)	--	--	04/24/07 19:57	
Hexachlorobutadiene	"	74.3	---	10.0	"	"	--	"	74.3%	(25-116)	--	--	"	
Hexachloroethane	"	56.2	---	10.0	"	"	--	"	56.2%	(40-113)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	79.5	---	10.0	"	"	--	"	79.5%	(25-171)	--	--	"	
Isophorone	"	91.1	---	10.0	"	"	--	"	91.1%	(25-196)	--	--	"	
Naphthalene	"	74.8	---	10.0	"	"	--	"	74.8%	(25-133)	--	--	"	
Nitrobenzene	"	80.6	---	10.0	"	"	--	"	80.6%	(35-180)	--	--	"	
2-Nitrophenol	"	84.5	---	10.0	"	"	--	"	84.5%	(29-182)	--	--	"	
4-Nitrophenol	"	94.5	---	10.0	"	"	--	"	94.5%	(25-132)	--	--	"	
N-Nitrosodimethylamine	"	84.2	---	20.0	"	"	--	"	84.2%	(25-150)	--	--	"	
N-Nitrosodi-n-propylamine	"	92.0	---	10.0	"	"	--	"	92.0%	(25-230)	--	--	"	
Di-n-octyl phthalate	"	91.4	---	10.0	"	"	--	"	91.4%	(25-146)	--	--	"	
Pentachlorophenol	"	119	---	10.0	"	"	--	"	119%	(25-176)	--	--	"	
Phenanthrene	"	86.8	---	10.0	"	"	--	"	86.8%	(54-120)	--	--	"	
Phenol	"	84.9	---	10.0	"	"	--	"	84.9%	(25-112)	--	--	"	
Pyrene	"	91.2	---	10.0	"	"	--	"	91.2%	(52-115)	--	--	"	
1,2,4-Trichlorobenzene	"	72.9	---	10.0	"	"	--	"	72.9%	(44-142)	--	--	"	
Surrogate(s): 2-FBP		*Recovery: 86.2%*			*Limits: 49-122%*	"							*04/24/07 19:57*	
2-FP		*79.5%*			*20-111%*	"							"	
Nitrobenzene-d5		*83.8%*			*50-120%*	"							"	
Phenol-d6		*85.5%*			*12-120%*	"							"	
p-Terphenyl-d14		*90.8%*			*10-138%*	"							"	
2,4,6-TBP		*94.7%*			*22-131%*	"							"	
LCS Dup (7D20023-BSD1)									Extracted: 04/20/07 11:38					
Acenaphthene	EPA 625	93.1	---	10.0	ug/l	1x	--	100	93.1%	(47-145)	4.62%	(30)	04/24/07 20:30	
Acenaphthylene	"	89.3	---	10.0	"	"	--	"	89.3%	(33-145)	4.58%	"	"	
Anthracene	"	92.6	---	10.0	"	"	--	"	92.6%	(27-133)	4.87%	"	"	
1,2-Diphenylhydrazine (as Azobenzene)	"	88.2	---	20.0	"	"	--	"	88.2%	(25-150)	2.06%	"	"	
Benzo (a) anthracene	"	88.6	---	10.0	"	"	--	"	88.6%	(33-143)	0.113%	"	"	
Benzo (a) pyrene	"	90.3	---	10.0	"	"	--	"	90.3%	(25-163)	1.79%	"	"	
Benzo (b) fluoranthene	"	81.7	---	10.0	"	"	--	"	81.7%	(25-159)	3.36%	"	"	
Benzo (k) fluoranthene	"	96.3	---	10.0	"	"	--	"	96.3%	(25-162)	1.44%	"	"	
Benzo (ghi) perylene	"	76.6	---	10.0	"	"	--	"	76.6%	(25-219)	4.95%	"	"	
Bis(2-chloroethoxy)methane	"	89.2	---	10.0	"	"	--	"	89.2%	(33-184)	4.59%	"	"	
Bis(2-chloroethyl)ether	"	86.3	---	10.0	"	"	--	"	86.3%	(25-158)	6.34%	"	"	
Bis(2-chloroisopropyl)ether	"	77.1	---	10.0	"	"	--	"	77.1%	(36-166)	6.84%	"	"	
Bis(2-ethylhexyl)phthalate	"	87.5	---	50.0	"	"	--	"	87.5%	(25-158)	0.00%	"	"	
4-Bromophenyl phenyl ether	"	80.8	---	10.0	"	"	--	"	80.8%	(53-127)	3.14%	"	"	
Butyl benzyl phthalate	"	90.5	---	10.0	"	"	--	"	90.5%	(25-152)	0.441%	"	"	

TestAmerica - Seattle, WA

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Acid and Base/Neutral Extractables by EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7D20023 **Water Preparation Method: EPA 3520C**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS Dup (7D20023-BSD1)								**Extracted: 04/20/07 11:38**						
2-Chloronaphthalene	EPA 625	73.2	---	10.0	ug/l	1x	--	100	73.2%	(60-118)	4.47%	(30)	04/24/07 20:30	
2-Chlorophenol	"	94.6	---	10.0	"	"	--	"	94.6%	(25-134)	8.03%	"	"	
4-Chlorophenyl phenyl ether	"	89.8	---	10.0	"	"	--	"	89.8%	(25-158)	4.09%	"	"	
Chrysene	"	90.4	---	10.0	"	"	--	"	90.4%	(25-168)	2.24%	"	"	
Di-n-butyl phthalate	"	88.7	---	10.0	"	"	--	"	88.7%	(25-118)	2.97%	"	"	
Dibenz (a,h) anthracene	"	85.9	---	10.0	"	"	--	"	85.9%	(25-227)	5.50%	"	"	
1,2-Dichlorobenzene	"	78.3	---	10.0	"	"	--	"	78.3%	(32-129)	13.2%	"	"	
1,3-Dichlorobenzene	"	71.6	---	10.0	"	"	--	"	71.6%	(25-172)	15.3%	"	"	
1,4-Dichlorobenzene	"	71.6	---	10.0	"	"	--	"	71.6%	(20-124)	13.4%	"	"	
3,3´-Dichlorobenzidine	"	87.8	---	20.0	"	"	--	"	87.8%	(25-262)	8.92%	"	"	
2,4-Dichlorophenol	"	88.1	---	10.0	"	"	--	"	88.1%	(39-135)	5.00%	"	"	
Diethyl phthalate	"	88.8	---	10.0	"	"	--	"	88.8%	(25-114)	3.67%	"	"	
2,4-Dimethylphenol	"	81.5	---	10.0	"	"	--	"	81.5%	(32-119)	1.61%	"	"	
Dimethyl phthalate	"	89.7	---	10.0	"	"	--	"	89.7%	(25-112)	2.48%	"	"	
4,6-Dinitro-2-methylphenol	"	119	---	10.0	"	"	--	"	119%	(25-181)	5.17%	"	"	
2,4-Dinitrophenol	"	119	---	20.0	"	"	--	"	119%	(25-191)	5.17%	"	"	
2,4-Dinitrotoluene	"	93.1	---	10.0	"	"	--	"	93.1%	(39-139)	4.84%	"	"	
2,6-Dinitrotoluene	"	91.1	---	10.0	"	"	--	"	91.1%	(50-158)	2.90%	"	"	
Fluoranthene	"	96.3	---	10.0	"	"	--	"	96.3%	(26-137)	4.24%	"	"	
Fluorene	"	89.7	---	10.0	"	"	--	"	89.7%	(59-121)	4.79%	"	"	
Hexachlorobenzene	"	92.5	---	10.0	"	"	--	"	92.5%	(25-152)	4.19%	"	"	
Hexachlorobutadiene	"	81.6	---	10.0	"	"	--	"	81.6%	(25-116)	9.36%	"	"	
Hexachloroethane	"	66.8	---	10.0	"	"	--	"	66.8%	(40-113)	17.2%	"	"	
Indeno (1,2,3-cd) pyrene	"	85.1	---	10.0	"	"	--	"	85.1%	(25-171)	6.80%	"	"	
Isophorone	"	94.6	---	10.0	"	"	--	"	94.6%	(25-196)	3.77%	"	"	
Naphthalene	"	79.3	---	10.0	"	"	--	"	79.3%	(25-133)	5.84%	"	"	
Nitrobenzene	"	83.5	---	10.0	"	"	--	"	83.5%	(35-180)	3.53%	"	"	
2-Nitrophenol	"	88.8	---	10.0	"	"	--	"	88.8%	(29-182)	4.96%	"	"	
4-Nitrophenol	"	96.0	---	10.0	"	"	--	"	96.0%	(25-132)	1.57%	"	"	
N-Nitrosodimethylamine	"	88.1	---	20.0	"	"	--	"	88.1%	(25-150)	4.53%	"	"	
N-Nitrosodi-n-propylamine	"	98.2	---	10.0	"	"	--	"	98.2%	(25-230)	6.52%	"	"	
Di-n-octyl phthalate	"	91.2	---	10.0	"	"	--	"	91.2%	(25-146)	0.219%	"	"	
Pentachlorophenol	"	124	---	10.0	"	"	--	"	124%	(25-176)	4.12%	"	"	
Phenanthrene	"	89.5	---	10.0	"	"	--	"	89.5%	(54-120)	3.06%	"	"	
Phenol	"	91.0	---	10.0	"	"	--	"	91.0%	(25-112)	6.94%	"	"	
Pyrene	"	90.1	---	10.0	"	"	--	"	90.1%	(52-115)	1.21%	"	"	
1,2,4-Trichlorobenzene	"	78.5	---	10.0	"	"	--	"	78.5%	(44-142)	7.40%	"	"	
Surrogate(s): 2-FBP		*Recovery: 89.2%*			*Limits: 49-122%*	"							*04/24/07 20:30*	
2-FP		*88.6%*			*20-111%*	"							"	

TestAmerica - Seattle, WA

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Acid and Base/Neutral Extractables by EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7D20023 **Water Preparation Method: EPA 3520C**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS Dup (7D20023-BSD1)							**Extracted: 04/20/07 11:38**							
Surrogate(s): Nitrobenzene-d5		*Recovery: 86.0%*			*Limits: 50-120%*	*1x*							*04/24/07 20:30*	
Phenol-d6		*92.7%*			*12-120%*	*"*							*"*	
p-Terphenyl-d14		*90.6%*			*10-138%*	*"*							*"*	
2,4,6-TBP		*98.0%*			*22-131%*	*"*							*"*	

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7D16057 **Water Preparation Method: General Preparation**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7D16057-BLK1)									Extracted: 04/16/07 15:23					
Total Suspended Solids	EPA 160.2	ND	---	4.0	mg/l	1x	--	--	--	--	--	--	04/17/07 15:23	
Duplicate (7D16057-DUP1)					QC Source: BQD0232-01				Extracted: 04/16/07 15:23					
Total Suspended Solids	EPA 160.2	ND	---	4.0	mg/l	1x	ND	--	--	--	18.2%	(25)	04/17/07 15:23	

QC Batch: 7D18040 **Water Preparation Method: Gravimetric (hexane)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7D18040-BLK1)									Extracted: 04/18/07 13:44					
Oil & Grease (HEM)	EPA 1664A	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	04/23/07 10:57	
Total Petroleum Hydrocarbons (SGT-HEM)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
LCS (7D18040-BS1)									Extracted: 04/18/07 13:44					
Oil & Grease (HEM)	EPA 1664A	38.1	---	5.00	mg/l	1x	--	40.0	95.2%	(78-114)	--	--	04/23/07 10:57	
Total Petroleum Hydrocarbons (SGT-HEM)	"	16.9	---	5.00	"	"	--	20.0	84.5%	(64-132)	--	--	"	
Matrix Spike (7D18040-MS1)					QC Source: BQD0232-01				Extracted: 04/18/07 13:44					
Oil & Grease (HEM)	EPA 1664A	38.2	---	5.10	mg/l	1x	0.710	40.8	91.9%	(78-114)	--	--	04/23/07 10:57	
Total Petroleum Hydrocarbons (SGT-HEM)	"	16.3	---	5.10	"	"	ND	20.4	79.9%	(64-132)	--	--	"	
Matrix Spike Dup (7D18040-MSD1)					QC Source: BQD0232-01				Extracted: 04/18/07 13:44					
Oil & Grease (HEM)	EPA 1664A	36.2	---	5.10	mg/l	1x	0.710	40.8	87.0%	(78-114)	5.38%	(18)	04/23/07 10:57	
Total Petroleum Hydrocarbons (SGT-HEM)	"	15.1	---	5.10	"	"	ND	20.4	74.0%	(64-132)	7.64%	(34)	"	

TestAmerica - Seattle, WA

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 7D26021 **Water Preparation Method: General Preparation**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7D26021-BLK1)								**Extracted: 04/25/07 11:04**						
Cyanide (total)	EPA 335.2 Mod	ND	---	0.0100	mg/l	1x	--	--	--	--	--	--	04/26/07 13:03	
LCS (7D26021-BS1)								**Extracted: 04/25/07 11:04**						
Cyanide (total)	EPA 335.2 Mod	0.0830	---	0.0100	mg/l	1x	--	0.0899	92.3%	(85-115)	--	--	04/26/07 13:03	
Duplicate (7D26021-DUP1)					**QC Source: BQD0275-01**			**Extracted: 04/25/07 11:04**						
Cyanide (total)	EPA 335.2 Mod	ND	---	0.0100	mg/l	1x	ND	--	--	--	NR	(27)	04/26/07 13:03	
Duplicate (7D26021-DUP2)					**QC Source: BQD0309-01**			**Extracted: 04/25/07 11:04**						
Cyanide (total)	EPA 335.2 Mod	ND	---	0.0100	mg/l	1x	ND	--	--	--	NR	(27)	04/26/07 13:03	
Matrix Spike (7D26021-MS1)					**QC Source: BQD0275-01**			**Extracted: 04/25/07 11:04**						
Cyanide (total)	EPA 335.2 Mod	0.0740	---	0.0100	mg/l	1x	ND	0.0899	82.3%	(53-128)	--	--	04/26/07 13:03	
Matrix Spike (7D26021-MS2)					**QC Source: BQD0309-01**			**Extracted: 04/25/07 11:04**						
Cyanide (total)	EPA 335.2 Mod	0.0830	---	0.0100	mg/l	1x	ND	0.0899	92.3%	(53-128)	--	--	04/26/07 13:03	

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PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Mercury by EPA Method 1631E - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7041121 **Water Preparation Method: EPA 1631**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7041121-BLK1)								**Extracted: 04/25/07 16:07**						
Mercury	EPA 1631E	ND	---	0.00500	ug/l	1x	--	--	--	--	--	--	04/26/07 11:20	
LCS (7041121-BS1)								**Extracted: 04/25/07 16:07**						
Mercury	EPA 1631E	0.0505	---	0.00500	ug/l	1x	--	0.0500	101%	(85-115)	--	--	04/26/07 11:23	
LCS Dup (7041121-BSD1)								**Extracted: 04/25/07 16:07**						
Mercury	EPA 1631E	0.0488	---	0.00500	ug/l	1x	--	0.0500	97.6%	(85-115)	3.42%	(20)	04/26/07 11:26	
Duplicate (7041121-DUP1)					**QC Source: PQD0753-02**			**Extracted: 04/25/07 16:07**						
Mercury	EPA 1631E	ND	---	0.00500	ug/l	1x	ND	--	--	--	NR	(20)	04/26/07 11:29	
Matrix Spike (7041121-MS1)					**QC Source: PQD0753-02**			**Extracted: 04/25/07 16:07**						
Mercury	EPA 1631E	0.0481	---	0.00500	ug/l	1x	ND	0.0500	96.2%	(71-125)	--	--	04/26/07 11:32	
Matrix Spike Dup (7041121-MSD1)					**QC Source: PQD0753-02**			**Extracted: 04/25/07 16:07**						
Mercury	EPA 1631E	0.0473	---	0.00500	ug/l	1x	ND	0.0500	94.6%	(71-125)	1.68%	(20)	04/26/07 11:35	

QC Batch: 7041179 **Water Preparation Method: EPA 1631**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7041179-BLK1)								**Extracted: 04/26/07 16:27**						
Mercury	EPA 1631E	ND	---	0.00500	ug/l	1x	--	--	--	--	--	--	04/27/07 09:30	
LCS (7041179-BS1)								**Extracted: 04/26/07 16:27**						
Mercury	EPA 1631E	0.0514	---	0.00500	ug/l	1x	--	0.0500	103%	(85-115)	--	--	04/27/07 09:32	
LCS Dup (7041179-BSD1)								**Extracted: 04/26/07 16:27**						
Mercury	EPA 1631E	0.0488	---	0.00500	ug/l	1x	--	0.0500	97.6%	(85-115)	5.19%	(20)	04/27/07 09:36	
Duplicate (7041179-DUP1)					**QC Source: PQD0970-02**			**Extracted: 04/26/07 16:27**						
Mercury	EPA 1631E	ND	---	0.00500	ug/l	1x	ND	--	--	--	73.4%	(20)	04/27/07 09:39	**R4**
Duplicate (7041179-DUP2)					**QC Source: BQD0232-01**			**Extracted: 04/26/07 16:27**						
Mercury	EPA 1631E	ND	---	0.00500	ug/l	1x	ND	--	--	--	23.9%	(20)	04/27/07 10:49	**R4**
Duplicate (7041179-DUP3)					**QC Source: BQD0232-03**			**Extracted: 04/26/07 16:27**						
Mercury	EPA 1631E	ND	---	0.00500	ug/l	1x	ND	--	--	--	1.48%	(20)	04/27/07 10:54	

TestAmerica - Seattle, WA

Sandra Yakamavich

Sandra Yakamavich, Project Manager

TestAmerica
ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Mercury by EPA Method 1631E - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7041179 **Water Preparation Method: EPA 1631**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (7041179-MS1)				**QC Source: PQD0970-02**				**Extracted: 04/26/07 16:27**						
Mercury	EPA 1631E	0.0497	---	0.00500	ug/l	1x	0.00216	0.0500	95.1%	(71-125)	--	--	04/27/07 09:41	
Matrix Spike (7041179-MS2)				**QC Source: PQD0970-11**				**Extracted: 04/26/07 16:27**						
Mercury	EPA 1631E	0.0469	---	0.00500	ug/l	1x	0.00183	0.0500	90.1%	(71-125)	--	--	04/27/07 09:48	
Matrix Spike Dup (7041179-MSD1)				**QC Source: PQD0970-02**				**Extracted: 04/26/07 16:27**						
Mercury	EPA 1631E	0.0500	---	0.00500	ug/l	1x	0.00216	0.0500	95.7%	(71-125)	0.602%	(20)	04/27/07 09:45	
Matrix Spike Dup (7041179-MSD2)				**QC Source: PQD0970-11**				**Extracted: 04/26/07 16:27**						
Mercury	EPA 1631E	0.0486	---	0.00500	ug/l	1x	0.00183	0.0500	93.5%	(71-125)	3.56%	(20)	04/27/07 09:51	

TestAmerica - Seattle, WA

Sandra Yakamavich

Sandra Yakamavich, Project Manager

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

PES Environmental	Project Name:	**Shell Terminal - 2555 13th SW, Seattle, WA**	
9 Lake Bellevue Dr Ste 108	Project Number:	SAP 357032, RIPR 57904	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Bill Haldeman	05/03/07 15:54

Notes and Definitions

Report Specific Notes:

H4	-	Sample was extracted past holding time, but analyzed within analysis holding time.
R10	-	The RPD between the primary and confirmatory analysis exceeded 40%. Per method 8000B, the lower value was reported due to apparent chromatographic problems.
R4	-	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Sandra Yakamavich

Sandra Yakamavich, Project Manager

BQ00232

TEST AMERICA

☑ 11720 North Creek Pkwy #400, Bothell, WA

☐ 9405 S. W. Nimbus Ave., Beaverton, OR 97008

☐ East 11115 Montgomery, Suite B, Spokane, WA 99206

Shell Oil Products US Chain Of Custody Record

SOP US Project Manager to be invoiced:

☐ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ CRMT HOUSTON

P.O. Box 4400
Houston, TX 77210

☐ BILL CONSULTANT

NAME OF PM TO BILL: Frank Rinehart (Seattle)

NAME OF TS TO BILL:

INCIDENT # (S&E ONLY)

SAP or CRMT # (TS/CRMT): 3 5 7 0 3 2

DATE:

PAGE: 1 of 1

CONSULTANT COMPANY: PES Environmental, Inc.

ADDRESS: Nine Lake Bellevue Drive, Suite 108

CITY: Bellevue, Washington 98005

TELEPHONE: 425-637-1905 FAX: 425-637-1907 E-MAIL: bhaldeman@pesenv.com

SITE ADDRESS (Street and City): 2555 13th Avenue SW, Seattle, WA 98134

PROJECT CONTACT (Report to): Bill Haldeman

CONSULTANT PROJECT NO.: 828.001.01

SAMPLER NAME(S) (Print): [signature]

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS): ☒ STANDARD (10 DAY) ☒ 5 DAYS (O&G) ☐ 3 DAYS ☒ 2 DAYS (TSS) ☒ 24 HOURS (BTEX) ☐ RESULTS NEEDED ON WEEKEND

all else

TEMPERATURE ON RECEIPT C°

SPECIAL INSTRUCTIONS OR NOTES :

cc invoice to Frank Rinehart, Shell, 2555 13th Avenue SW, Seattle, WA, 98134

REQUESTED ANALYSIS if more than one method is listed, circle one

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH - Purgeable (8015) GRO	TPH - Extractable (8015) DRO	BTEX / MTBE (8021B, 602, 8260/624)	BTEX / MTBE + Oxygenates (8260B)	VOCs Full List + Oxygenates (8260B)	8 RCRA Metals	4 RCRA Metals (As, Cd, Cr, Pb)		Metals (Specify): Total Zn	[struck out]	NWTPH-Gx/BTEX	Oil & Grease (1664)	Total Suspended Solids (160.2)		VOCs (624)	SVOCs (625)	PCBs (608)	As, Cd, Cu, Pb, Hg, Ni, Ag, Zn (200)	Total Cyanide (335.2)	Total Hg (1631E)	Container PID Readings or Laboratory Notes
	Outfall-1-041307	4-13-07	1030	W	8	1		3													X	X			X	X	X	X	X	X	01
	Outfall-2-041407	4-14-07	1950	W	2																	X									02
	Field Blank	4-13-07	1730	W	2																									X	03
	Trip Blank			W	4																										04

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Cathy Gamble	4-14-07	1110

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

05/1/01 Revision

w/ @ 4.0

HI-SHELL002482